

**Material Safety Data Sheet**

**Version No.: 2.0 (Revision Date: 2023-06-28)**

***ExiProgen™* ProXpress PCR Template Kit (*AccuPower®* ProFi Taq PCR Premix)**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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A. Product name : *AccuPower®* ProFi Taq PCR Premix

B. Recommended use : Research use only

C. Supplier

Company name : Bioneer corporation

Address : 71, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea

Telephone : +82-42-1588-9788

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**2. HAZARDS IDENTIFICATION**

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A. Emergency Overview

Not applicable

B. GHS Label elements, including precautionary statements

Pictogram

Not applicable

Signal word : Not applicable

Hazard statements(s) :

Not applicable

Precautionary statements :

Prevention :

Not applicable

Response :

Not applicable

Storage :

Not applicable

Disposal :

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Not applicable

C. Other hazards which do not result in classification (Example: dust explosion hazard) :

Not applicable

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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– The product contains no substances which at their given concentration, are considered to be hazardous to health.

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### 4. FIRST AID MEASURES

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A. In case of eye contact :

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Get immediate medical advice/attention.

B. In case of skin contact :

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

Get immediate medical advice/attention.

C. If Inhaled :

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

D. If swallowed :

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Get immediate medical advice/attention.

E. Notes to physician :

Notify medical personnel of contaminated situations and have them take appropriate protective measures.

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### 5. FIRE-FIGHTING MEASURES

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A. Suitable (or unsuitable) extinguishing media :

No data available.

B. Specific hazards arising from the chemical (Example: Hazardous substances generated during combustion) :

Heating may cause an explosion of container.

C. Special protective actions for firefighters :

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Rescuers should put on appropriate protective gear.

Evacuate area and fight fire from a safe distance.

Move containers from fire area if you can do it without risk.

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## 6. ACCIDENTAL RELEASE MEASURES

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### A. Personal precautions, protective equipment :

Avoid breathing dust/fume/gas/mist/vapors/spray.

Clean up spills immediately, observing precautions in '8. EXPOSURE CONTROLS/PERSONAL PROTECTION' section.

Isolate hazard area.

Keep unnecessary and unprotected personnel from entering.

Eliminate all ignition sources.

Stop leak if you can do it without risk.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### B. Environmental precautions :

Runoff from fire control may be corrosive and/or toxic and cause pollution.

Prevent entry into water ways, sewers, basements or confined areas.

### C. The methods of purification and removal :

Absorb spills with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Reduce dust and prevent scattering by moistening with water.

Dissolve in water and collect for proper disposal.

Absorb the liquid and scrub the area with detergent and water.

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## 7. HANDLING AND STORAGE

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### A. Precautions for safe handling :

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Use carefully in handling/storage.

Use only outdoors or in a well-ventilated area.

Loosen closure cautiously before opening.

Avoid breathing dust/fume/gas/mist/vapors/spray.

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Wash your hands thoroughly after handling.

Avoid prolonged or repeated contact with skin.

Contaminated work clothing should not be allowed out of the workplace.

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

B. Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated place. Keep container tightly closed.

Do not apply any physical shock to container.

Avoid direct sunlight.

Keep in the original container.

Please pay attention to incompatibilities materials and conditions to avoid.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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A. Occupational Exposure Limits :

No data available

B. Appropriate engineering controls :

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the recommended exposure limit.

Facilities for storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

C. Personal Protective Equipment :

Respiratory protection :

Uses respirator when vapours/aerosols are generated.

Use a European Standard EN 149 (or other accompanying standards relating to the used respiratory protection system) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Eye protection :

Wear the protective glasses or breathable safety goggles to protect from vaporous state organic material causing eye irritation or other disorder.

An eye wash unit and safety shower station should be available nearby work place.

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Hand protection :

Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

Skin and body protection :

Wear appropriate resistant protective clothing by considering physical and chemical properties of chemicals.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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A. Appearance (form, color, etc) : No data available.

B. Odor : No data available.

C. Odor Threshold : No data available.

D. pH : No data available.

E. Melting/Freezing point : No data available.

F. Initial boiling point/range : No data available.

G. Flash point : No data available.

H. Evaporation rate : No data available.

I. Flammability (solid, gas) : No data available.

J. Lower/upper explosion limit : No data available.

K. Vapor pressure : No data available.

L. Water solubility : No data available.

M. Relative vapor density : No data available.

N. Density : No data available.

O. Partition coefficient: n-octanol/water : No data available.

P. Autoignition temperature : No data available.

Q. Decomposition temperature : No data available.

R. Viscosity : No data available.

S. Molecular weight : No data available.

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## 10. STABILITY AND REACTIVITY

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A. Chemical stability/Possibility of hazardous reactions :

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Heating may cause an explosion of container.

B. Conditions to avoid :

Keep away from heat/sparks/open flames/hot surfaces.

C. Incompatible materials :

No data available.

D. Hazardous decomposition products :

No data available.

**11. TOXICOLOGICAL INFORMATION**

A. Information on the likely routes of exposure

Category	Chemical name	Content
Likely routes of exposure	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.

B. Delayed and immediate effects and also chronic effects from short and long term exposure

Category	Chemical name	Content
Acute toxicity (Oral)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Acute toxicity (Dermal)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Acute toxicity (Inhalation)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Skin corrosion/irritation	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Serious eye damage/eye irritation	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Respiratory or skin sensitization	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.

Germ cell mutagenicity	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Carcinogenicity	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Reproductive toxicity	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Specific target organ toxicity – single exposure	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Specific target organ toxicity – repeated exposure	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Aspiration hazard	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.

C. Numerical measures of toxicity (Example: Acute toxicity estimate)

Category	Chemical name	Content
Numerical measures of toxicity	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Acute toxicity estimate (Oral)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Acute toxicity estimate (Dermal)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Acute toxicity estimate (Inhalation)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.

**12. ECOLOGICAL INFORMATION**

Category	Chemical name	Content
Ecotoxicity (Fish)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Ecotoxicity (Crustacea)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Ecotoxicity (Algae)	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Persistence and degradability	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Bioaccumulative potential	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Mobility in soil	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.
Other adverse effects	<i>AccuPower@ ProFi</i> Taq PCR Premix	No data available.

### 13. DISPOSAL CONSIDERATIONS

A. Disposal methods :

Waste material must be disposed of in accordance with the national and local regulations.

B. Special precautions for disposal :

The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.

### 14. TRANSPORT INFORMATION

UN RTDG	ADR	IMDG	IATA
A. UN number			
Not applicable	Not applicable	Not applicable	Not applicable



B. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
C. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
D. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
E. Marine pollutant			
Not applicable	Not applicable	Not applicable	Not applicable
– No supplementary information available.			

F. Special precautions for user:

in case of fire : **Not applicable**

in case of leakage : **Not applicable**

## 15. REGULATORY INFORMATION

A. Occupational Safety and Health Act

Category	Applicable or Not Applicable	Detail information
Hazardous Substances Prohibited for Manufacturing	Not applicable	–
Hazardous Substances Requiring Permission	Not applicable	–
Threshold Limit Values Chemicals	Not applicable	–
Hazardous Substances Below Permissible Level	Not applicable	–
Hazardous Substances Subject to Working Environment Measurement	Not applicable	–
Hazardous Substances Subject to Workers Requiring Health Examination	Not applicable	–
Hazardous Substances Subject to Control	Not applicable	–

Substance Subject to Submission of PSM	Not applicable	–
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B. Chemicals Control Act

Category	Applicable or Not Applicable	Detail information
Toxic Substances	Not applicable	–
Prohibited Substances	Not applicable	–
Restricted Substances	Not applicable	–
Substances Requiring Preparation for Accident	Not applicable	–

C. ACT ON REGISTRATION, EVALUATION, ETC. OF CHEMICALS (K-REACH)

Category	Applicable or Not Applicable	Detail information
Korea Existing Chemicals Inventory (MOE, Republic of Korea)	Not applicable	–
Priority Existing Chemicals (MOE, Republic of Korea)	Not applicable	–
Substances Subject to Intensive Control	Not applicable	–
CMR Substances	Not applicable	–

D. Safety Control of Dangerous Substances Act

Category	Applicable or Not Applicable	Detail information
Safety Control of Dangerous Substances Act	Not applicable	–

E. Wastes Control Act

Category	Applicable or Not Applicable	Detail information
Hazardous Substances in Designated wastes	Not applicable	–
Types of wastes	No data available	–

F. Other Domestic and International Regulatory Information

– Domestic

Category	Applicable or Not Applicable	Detail information
Persistent Organic Pollutants(POPs) Control Act	Not applicable	–
Ozone Depleting Substances(ODS)	Not applicable	–

– International

– EU Regulatory Information

Category	Applicable or Not Applicable	Detail information
EU Candidate list (SVHC)	Contains no substance(s) listed on the REACH Candidate List	–
EU authorization list (REACH Annex XIV)	Contains no substance(s) listed on REACH Annex XIV (Authorisation List)	
EU restriction list (REACH Annex XVII)	Not applicable	–

– US Regulatory Information

Category	Applicable or Not Applicable	Detail information
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	Not Applicable	
CERCLA Section 103 (40CFR302.4)	Not applicable	–
EPCRA Section 302 (40CFR355.30)	Not applicable	–
EPCRA Section 304 (40CFR355.40)	Not applicable	–
EPCRA Section 313 (40CFR372.65)	Not applicable	–

– International agreements

No data available

## 16. OTHER INFORMATION

### A. Key literature reference and sources for data

- 1) Chemical reagent provider's Material Safety Data Sheet. (2. HAZARDS IDENTIFICATION // 4. FIRST AID MEASURES // 5. FIRE-FIGHTING MEASURES // 6. ACCIDENTAL RELEASE MEASURES // 7. HANDLING AND STORAGE // 8. EXPOSURE CONTROLS/PERSONAL PROTECTION // 9. PHYSICAL AND CHEMICAL PROPERTIES // 10. STABILITY AND REACTIVITY // 11. TOXICOLOGICAL INFORMATION // 12. TOXICOLOGICAL INFORMATION)
- 2) Korea Occupational Safety & Health Agency chemical information, <http://msds.kosha.or.kr/MSDSInfo/> (2. HAZARDS IDENTIFICATION // 4. FIRST AID MEASURES // 5. FIRE-FIGHTING MEASURES // 6. ACCIDENTAL RELEASE MEASURES // 7. HANDLING AND STORAGE // 8. EXPOSURE CONTROLS/PERSONAL PROTECTION // 9. PHYSICAL AND CHEMICAL PROPERTIES // 10. STABILITY AND REACTIVITY // 11. TOXICOLOGICAL INFORMATION // 12. TOXICOLOGICAL INFORMATION)
- 3) ExESS Material Safety Data Sheet program's database search. (8. EXPOSURE CONTROLS/PERSONAL PROTECTION // 11. TOXICOLOGICAL INFORMATION // 12. ECOLOGICAL INFORMATION // 14. TRANSPORT INFORMATION // 15. REGULATORY INFORMATION)
4. Korea Maritime Dangerous Goods Inspection & Research Institute, <http://eng.komdi.or.kr/> (14. TRANSPORT INFORMATION)

B. Issue date : 26-April-2013

C. Revision number and Last date revised : 2 (28-June-2023)

D. Disclaimer :

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BIONEER corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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